



Section 9: Middle School Courses

Section 9 presents descriptions of all the CTE courses offered in middle school, organized alphabetically. Also, a list of CTE courses that may be taught in middle school for high school credit may help students balance their academic and CTE course options.

Section 9: Middle School Courses

Students in middle school have the opportunity to gain a foundation in technical fields and explore careers through a variety of career and technical courses described below. These experiences will help students make sound choices related to their academic and elective program of studies in high school.

Agriscience Exploration ANR8003

Grade Level: 7 (18 weeks)

Students explore science as it relates to agriculture and develop an understanding of human relations, communication, the importance of agriculture to the economy, and key scientific terms related to the field of agriculture.

Agriscience and Technology ANR8004

Grade Level: 8 (18 or 36 weeks)

Through laboratory activities, students apply scientific principles to the field of agriculture, including plants, animals, and ecology/conservation. The course introduces students to biotechnology as it relates to agriculture.

Career Pathways Phase 1 (Career Exploration) CCN9070

Grade Levels: 6-12 (Time and schedule locally determined)

Phase 1 prepares students to be "career investigators." To obtain the title, students must assess their role in society, identify their role as a worker, analyze their personal assets, complete a basic exploration of career clusters and select career fields or occupations for further study, and secure a career investigator (job shadowing) position with a local employer.

Career Pathways (Career Skills) Phase 2 CCN9071

Grade Levels: 6-12 (Time and schedule locally determined)

Phase 2 consists of an in-depth study of one to four or more career clusters through a variety of investigative activities with local employers. Students observe, analyze, and report on the demand for workers, worker qualifications, organizational structures, quality control measures, selected policies and regulations, ethical issues, and rewards of work. Students who complete Phase 2 successfully qualify to become "career analysts."

Careers and You DTE8475

Grade Level: 5 or 6 (9, 18, or 36 weeks, single period)

Elementary or middle school students may enroll in this course prior to taking career and technical or career exploratory courses. They investigate the 16 career clusters designated by the U.S. Office of Education by focusing on

- understanding oneself in relation to work
 - understanding and simulating work styles (mechanical, conventional, enterprising, social, investigative, and creative)
 - identifying and simulating selected careers
 - planning for future exploratory courses or activities.
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Computer Applications BUS6611

Grade Levels: 7, 8, 9, 10 (36 weeks)

Computer Applications BUS6617

Grade Levels: 7, 8, 9, 10 (18 weeks)

Prerequisite: Keyboarding* recommended

Students develop or review correct keyboarding techniques and gain a basic knowledge of word processing, spreadsheet, database, graphics, and telecommunications applications. Students demonstrate an understanding of computer concepts through application of knowledge. Students learn to use software packages and local and worldwide network communications systems. Grade 8 Computer/Technology Standards of Learning are incorporated and reinforced in this course.

*Keyboarding course(s) or teacher-approved demonstrated and documented touch keyboarding skills

Computer Solutions BUS6609

Grade Levels: 7, 8 (6/9/12/18 weeks)

Computer Solutions BUS6609

Grade Levels: 7, 8 (36 weeks)

Students use the computer as a problem-solving tool to complete a variety of projects. Students participate in team-building activities that include both academic and business competencies. Basic touch keyboarding instruction is provided early in the course.

Digital Input Technologies BUS 6160 (18 weeks)/BUS6161 (36 weeks)

Grade Levels: 7, 8, or 9

Prerequisite: Keyboarding* is recommended for 18-weeks course.

The Digital Input Technologies course introduces new and emerging tools that are quickly becoming standard in today's workplace. Students develop proficiency using Personal Data Assistants (PDAs), speech recognition software, and input tools for entering and manipulating text and data. The 36-week course offers secondary-level keyboarding skills.

*Keyboarding course(s) or teacher-approved demonstrated and documented touch keyboarding skills

Education for Employment (EFE)

Introduction CCN9075 (for Students Identified as Disadvantaged—18 weeks)

Introduction CCN9076 (for Students Identified as Disadvantaged—other than 18 weeks)

Introduction CCN9082 (for Students with Disabilities—18 weeks)

Introduction CCN9083 (for Students with Disabilities—other than 18 weeks)

Grade Levels: 6, 7, 8, 9

Students explore independent living and workplace skills by identifying individual assets, interests, aptitudes, talents, and current occupational abilities. Through practical experiences related to daily living and work, students determine strategies to improve their assets and ways to emphasize their strengths at home, school, and in the workplace.

Exploring Work and Family Roles

FCS8204 Exploratory Grade 6

FCS8206 Exploratory Grade 7

FCS8208 Exploratory Grade 8

FCS8241 Exploratory 6 weeks

FCS8242 Exploratory 9 weeks

FCS8243 Exploratory 12 weeks

FCS8244 Exploratory 18 weeks

FCS8245 Exploratory 36 weeks

The middle school exploratory courses provide a foundation for management of individual, family, work, and community roles and responsibilities. Students explore concepts and practice skills related to problem solving, leadership, interpersonal relationships, ethical practices, career interests, environmental issues, and high-quality work. Mathematics, science, language, social sciences, fine arts, and technology are integrated throughout the program. Exploring Work and Family Roles is the foundation for Family and Consumer Sciences programs on the high school level.

GRADS FCS8211/FCS8212 (18/36 weeks)

Grade Levels: 6-8

Students enrolled in the **Graduation, Reality, And Dual-role Skills Program (GRADS)** concentrate on developing self-esteem; using effective communication skills; maintaining positive relationships; promoting wellness, prenatal, and postnatal care; evaluating the cost of parenthood; adjusting to parenthood; understanding child development; providing child care; managing family relationships; exploring careers; applying employability skills; managing economic resources and expenditures; and balancing work and family. Teachers highlight the basic skills of math and science when appropriate in the content.

Health and Medical Sciences Exploratory HMS8370

Grade Level: Middle School (18 weeks, single period)

This course follows a complementary course such as Careers and You. Students explore families of health careers and related occupations, participate in self-awareness activities, and receive an overview of the national health industry. Course content may also include the criteria for entering certain biomedical scientific careers and activities dealing with communication, problem solving, and critical thinking.

Introduction to Agriscience ANR8002

Grade Level: 6 (18 weeks or less)

Middle school students develop an awareness of the relationships between agriculture and science. Major concepts covered in the course include awareness of agriculture, the world of work, agribusiness careers, human relations, and scientific principles applied in agriculture.

Introduction to Technology DTE8483 (36 weeks)

Introduction to Technology DTE8482 (18 weeks)

Introduction to Technology DTE8484 (12 weeks)

Introduction to Technology DTE8481 (9 weeks)

Grade Level: 6

Students first study the basic elements of all technology, including processes, energy, information, and people. They explore up to four systems of technology, including construction, transportation, communication, and production/manufacturing. Finally, they relate the impact of technology on society, environment, and culture to future consequences and decisions.

Inventions and Innovations DTE8461 (36 weeks)

Inventions and Innovations DTE8464 (18 weeks)

Inventions and Innovations DTE8485 (12 weeks)

Grade Level: 7

Students make models of significant inventions that have advanced society. After studying these developments, they explore contemporary technological problems facing them, their community, or the world and apply systematic procedures to invent new products or innovations as solutions.

Make It Your Business BUS6110

Grade Levels: 6, 7, 8, 9 (6/9/12 weeks)

Make It Your Business BUS6111

Grade Levels: 6, 7, 8, 9 (18 weeks)

Students are provided opportunities to run a small group or class business based on their own design for providing a service or product needed at their school. Students learn business terminology, basic entrepreneurship concepts, and fundamental business operating principles in this course. Design of course content provides for interdisciplinary instruction.

Make It Your Business MKT8109

Grade Levels: 6, 7, 8, 9 (6 weeks)

Make It Your Business MKT8112

Grade Levels: 6, 7, 8, 9 (9 weeks)

Make It Your Business MKT8113

Grade Levels: 6, 7, 8, 9 (12 weeks)

Make It Your Business MKT8114

Grade Levels: 6, 7, 8, 9 (18 weeks)

Students are provided opportunities to run a small group or class business based on their own design for providing a service or product needed at their school. They learn business terminology, basic entrepreneurship concepts, and fundamental business operating principles in this course. Design of course content allows for interdisciplinary instruction. Academic knowledge and skills (mathematics, science, English, and history/social science) related to the content are a part of this course. Computer/technology applications supporting this course are studied.

ProTeam CCN9060/CCN9061**Grade Level:** 7 or 8

ProTeam is an exploratory class for students in grades 7 and 8 with a career interest in teaching and education. The curriculum is designed to help students set realistic goals that include the steps to prepare for successful completion of high school and college, including an emphasis on career development competencies. The eight course modules are *I Can Self-Reflect*, *I Can Communicate*, *I Can Teach Others*, *I Can Be Different*, *I Can Make Decisions*, *I Can Set Goals*, and *I Can Think Positively*. The course has an emphasis on service learning, cooperative work groups, teaching-like experiences, and family involvement. This program shall be articulated with a Teacher Cadet program at the high school.

Technological Systems DTE8462 (36 weeks)**Technological Systems DTE8463** (18 weeks)**Technological Systems DTE8486** (12 weeks)**Grade Level:** 8

Students combine resources and techniques into systems, realizing technology as a system. By simulating systems, assessing their impacts, and relating this experience to the two previous levels, students gain an insight into how to approach the problems and opportunities of a technological world in a broad sense. They also explore occupational areas and educational programs for technology-oriented careers.

HIGH SCHOOL CREDIT FOR CTE COURSES OFFERED IN MIDDLE SCHOOL

In addition to exploratory courses, school divisions may offer some career and technical courses to middle school students for high school credit. The courses must be the same length and taught with the same content as the courses taught at the high school level. Students should see the school counselor for a complete explanation of course offerings for credit.

These courses are described in Section 2.

- Basic Agricultural Mechanics and Plant Science ANR8006
- Basic Agricultural Mechanics and Animal Science ANR8008
- Career Pathways CCN9070/CCN9071
- Computer Applications BUS6611
- Principles of Business and Marketing BUS6115
- Principles of Business and Marketing MKT8115
- Keyboarding BUS6151/BUS6152/BUS6153
- Information Technology Fundamentals BUS6670
- Introduction to Health and Medical Sciences HMS8302
- Resource Management FCS8219
- Technology Foundations DTE8403